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(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **ANSORGE, Joachim** [DE/NL]; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL). **DIRKZWAGER, Hendrik** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). **FENOUIL, Laurent, Alain** [FR/GB]; 2 York Road, Waterloo, London SE1 7NA (GB). **GEIJSEL, Joannes, Ignatius** [NL/NL]; Carel van Bylandtlaan 30, NL-2596

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ACTION

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(54) Title: PROCESS FOR THE PREPARATION OF LINEAR OLEFINS AND USE THEREOF TO PREPARE LINEAR ALCOHOLS

(57) Abstract: Process for the preparation of a mixture comprising C₅+ linear olefins, which process comprises the steps of (a) reacting carbon monoxide and hydrogen in the presence of an effective amount of Fischer-Tropsch catalyst under Fischer-Tropsch reaction conditions; (b) separating from the hydrocarbon mixture thus prepared at least one hydrocarbon fraction, of which at least 95% by weight consists of hydrocarbons containing 15 carbon atoms or more; (c) contacting this hydrocarbon fraction with hydrogen in the presence of an effective amount of hydrogenation catalyst under hydrogenation conditions; (d) subjecting the hydrogenated hydrocarbon fraction thus obtained to a mild thermal cracking treatment; and (e) separating from the cracked product thus prepared the mixture comprising C₅+ linear olefins.